

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

WinDoor, Inc. 7500 Amsterdam Drive Orlando, FL 32832

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:** Series "4000" Aluminum Single Hung Window – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **FEI0001**, titled "Series 4000 Single Hung Impact (LMI) Window", sheets 1 through 8 of 8, dated 07/06/11, with revision B dated 10/12/12, prepared by PTC, Product Design Group, LLC, signed and sealed by Robert James Amoruso, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

#### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 12-0320.15 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

MIAMI-DADE COUNTY
APPROVED

W/1/8/13

NOA No. 12-1106.02 Expiration Date: November 18, 2014 Approval Date: January 17, 2013 Page 1

#### WinDoor, Inc.

#### **NOTICE OF ACCEPTANCE:** EVIDENCE SUBMITTED

#### A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No **FEI0001**, Sheets 1 through 8 of 8, titled "Series 4000 Single Hung Impact (LMI) Window", dated 07/06/11, with revision B dated 10/12/12, prepared by PTC Product Design Group, LLC, signed and sealed by Robert James Amoruso, P.E.

#### B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of aluminum single hung window, specimens #SH-1 through #SH-6, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3567-1**, dated 10/24/08, signed and sealed by Gerard J. Ferrara, P.E.

### (Submitted under previous NOA #09-0723.06)

- 2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of aluminum single hung window, specimens #SH-9, #SH-10 and #SH-11prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3568-1**, dated 10/24/08, signed and sealed by Gerard J. Ferrara, P.E.

(Submitted under previous NOA #09-0723.06)

#### C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by PTC, LLC, dated 5/19/09, signed and sealed by Robert James Amoruso, P.E.

(Submitted under previous NOA #11-0815.11)

2. Glazing complies with ASTM E1300-04

Manuel Perez P.E.
Product Contro Examiner

NOA No. 12-1106.02

November 18, 2014

Expiration Date: November 18, 2014 Approval Date: January 17, 2013

#### WinDoor, Inc.

#### **NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

#### D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

#### E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 11–0624.02 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont SentryGlas® Interlayer" dated 08/25/11, expiring on 01/14/17.

#### F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC-2010, and no financial interest, dated October 29, 2012, signed and sealed by Robert James Amoruso, P.E.
- 2. Laboratory compliance letters for Test Reports No. NCTL-210-3567-1 and NCTL-210-3568-1, issued by National Certified Testing Laboratories, dated January 7, 2009, signed and sealed by Gerard J. Ferrara, P.E. (Submitted under previous NOA #09-0723.06)

#### G. OTHERS

1. Notice of Acceptance No. 12-0320.15, issued to WinDoor, Inc. for their Series "4000" Aluminum Single Hung Window – L.M.I., approved on 05/31/12 and expiring on 11/18/14.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-1106.02

Expiration Date: November 18, 2014 Approval Date: January 17, 2013

# WINDOOR, Inc. IMPACT SERIES 4000 SH Window, LMI INSTALLATION ANCHORAGE DETAILS

#### **GENERAL NOTES:**

- 1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE 2007 AND 2010 FLORIDA BUILDING CODE (FBC) AT THE DESIGN PRESSURES STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT # NCTL-210-3744-1A AND NCTL-210-3744-5A DATED 01/07/2009 AND ASSOCIATED LABORATORY STAMPED DRAWINGS AND WERE TESTED IN ACCORDANCE WITH CURRENT DADE COUNTY PROTOCOLS.
- 2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE OR
- 3. WHEN WOOD BUCKS ARE USED, THEY SHALL NOT BE CONSIDERED PART OF THE STRUCTURAL SUBSTRATE REGARDLESS OF THEIR ATTACHMENT TO THE STRUCTURAL SUBSTRATE. WOOD BUCKS SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER 7. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04e1. OR ARCHITECT OF RECORD.
- 4. WHEN 1X AND 2X WOOD BUCKS ARE USED AND IN CONTACT WITH CONCRETE AND/OR MASONRY, THE WOOD USED SHALL BE EITHER A PRESERVATIVE TREATED SOUTHERN YELLOW PINE OR A DURABLE WOOD SPECIES IN ACCORDANCE WITH 2007 AND 2010 FBC -MUST HAVE

FRUCTURE	RUCTURE IS THE RESPONSIBILITY OF THE ENGINEER ARCHITECT OF RECORD.  BUILDING, SECTION 2326.2. THE WOOD USED M A SPECIFIC GRAVITY OF 0.55 MINIMUM.						
		Table 1 -	ANCH	IOR SCHEDULE			
Substrate	Minimum Concrete Strength (psi)	Anchor Type	Size	Manufacturer	Minimum Embedment (in)	Minimum Edge Distance (in)	
				ITW Buildex Tapcon	1 1/4	2 1/2	
CMU	ASTM C90	Carbon Steel Concrete Screw	1/4"	ITW Buildex Tapcon with Advanced Threadform Technology	1	2	
				Elco Ultracon	1 1/4	1 1/2	
Filled (Grouted) CMU	2000	Carbon Steel Concrete Screw	1/4"	ITW Buildex Tapcon with Advanced Threadform Technology	1 3/4	1 1/2	
	2000	Carbon Steel Concrete Screw		Elco Ultracon	1 3/4	2 1/2	
Concrete	2000	Carbon Steel Concrete Screw	1/4"	ITW Buildex Tapcon with Advanced Threadform Technology	1 3/4	1 1/2	
Consider	2700	Carbon Steel Concrete Screw		Elco Ultracon	1 3/4	1 1/2	
Vood Frame	n/a	Wood Screw (WS) or Sheet Metal Screw (SMS) - Carbon Steel or Stainless Steel	#14 WS 1/4" SMS	ANSI B18.6.1 (WS) ASME B18.6.4 (SMS) (Type AB)	1 1/2	1	
Mullion Jamb Only)	n/a	Sheet Metal Screw (SMS) - Carbon Steel or Stainless Steel	1/4" SMS	ASME B18.6.4 (SMS) (Type D,F,G or T pilot hole required) or ITW/Buildex	3 screw threads embedment past inside of mullion's	n/a	

A. Other manufacturer's concrete screws may be acceptable if they meet or exceed the allowable shear value of 303 lbs for concrete or grout-filled CMU or 202 lbs for hollow CMU, are installed at a minimum embedment required for that allowable and the installation meets the edge distance and spacing requirements for that anchor at the prescribed shear capacity

TEK Screws

- B. All screws will be "flat" head
- C. Screw lengths will be sufficient to allow the minimum embedment to be made into the receiving substrate
- D. CMU: Concrete Masonry Unit.

- 5. AN IMPACT PROTECTIVE SYSTEM (I.E. SHUTTERS, ETC.) IS 7 SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR NOT REQUIRED WITH THESE WINDOWS.
- 6. WINDOW FRAME MATERIAL: ALUMINUM 6063-T6 AND 6005-T5.
- 8. DESIGNATIONS "X" AND "O" STANDS FOR THE FOLLOWING: X: OPERABLE SASH, O: FIXED LITE.
- 9. A 1/3 INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THE DESIGN OF THE PRODUCTS SHOWN HEREIN. WIND LOAD DURATION FACTOR (Cd = 1.6) HAS NOT BEEN USED FOR WOOD ANCHOR DESIGN.

#### **INSTALLATION NOTES:**

- 1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON THE ELEVATIONS.
- NOT APPLICABLE.
- 3. ALL INSTALLATION ANCHORS MUST HAVE A CORROSION RESISTANT COATING OR BE MADE OF STAINLESS STEEL.
- 4. SEAL FRAME CORNERS AT SILL-TO-JAMB AND HEAD-TO-JAMB WITH SMALL JOINT SEAM SEALANT. SEE CORNER DETAIL.
- 5. SEAL ALL INSTALLATION ANCHOR HEADS WITH SMALL JOINT SEAM SEALANT DURING INSTALLATION. APPLY SEALANT IN COUNTERSINK BEFORE ANCHOR INSTALLATION AND SEAL ANCHOR HEAD AFTER ANCHOR INSTALLATION.
- 6. THE SPACING OF INSTALLATION ANCHORS DEPICTED IS THE MAXIMUM SPACING TO BE USED FOR PRODUCT INSTALLATION. ANCHORS ARE TO MATCH TYPE, SIZE, EDGE DISTANCE AND EMBEDMENT OF THOSE SHOWN IN TABLE 1 FOR RESPECTIVE SUBSTRATE.

		TABLE OF CONTENTS	C. MASONRY - STRENGT
SHEET	REV.	SHEET DESCRIPTION	C-90 MEDIUM WEIGHT
1	В	GENERAL AND INSTALLATION NOTES	
2	Α	ANCHOR LAYOUT & DP TABLE	PRODUCT REVISED  as complying with the Florida
3	Α	ANCHORAGE LIMITATIONS DP TABLES	Building Code
4	Α	VERTICAL SECTIONS & CORNER DETAIL	Acceptance No 12-1106.02 Expiration Date 100.18.2014
5	Α	VERTICAL SECTIONS	1/Gage 1/2014
6	В	VERTICAL SECTIONS RECESSED FR HEADS	By Waller ers
7	Α	HORIZONTAL SECTIONS	Miami Dade Product Control
8	В	COMPONENTS, BOM & GLAZING DETAILS	

- WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER
- 8. FOR INSTALLATION INTO WOOD FRAMING, USE WOOD SCREWS OR TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE THE MINIMUM EMBEDMENT, MINIMUM EDGE DISTANCE AND MINIMUM ANCHOR SEPARATION OF 1 INCH AS SHOWN IN TABLE 1.
- 9. FOR INSTALLATION THROUGH 1X WOOD BUCK TO CONCRETE / MASONRY, OR DIRECTLY INTO CONCRETE / MASONRY, USE CONCRETE SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE AS SHOWN IN TABLE 1. TO PREVENT WOOD BUCKING FROM SPLITTING, DRILL 1/4" DIAMETER HOLE TO ACCOMODATE ANCHORS.
- 10. FOR INSTALLATION INTO APPROVED MULLION, USE TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS EMBEDMENT PAST INSIDE OF MULLION'S WEB AS SHOWN ON TABLE 1. APPLICABLE ONLY FOR JAMB TO MULLION CONNECTION, SHIMS CANNOT BE USED.
- 11. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING).
- 12. FOR CONCRETE BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 13. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - A. WOOD SOUTHERN YELLOW PINE. MINIMUM SPECIFIC GRAVITY OF 0.55.
  - B. CONCRETE MINIMUM COMPRESSIVE STRENGTH SHOWN IN TABLE 1 AND COMPLIES WITH ACI 301.
  - C. MASONRY STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT (DENSITY > 117 PCF). GROUT FILLED PER FLORIDA BUILDING CODE.

INCORPORATED

**PTC Product Design Group, LLC** PO Box 520775 Longwood, FL 32752-0775 321-690-1788 (P) 321-690-1789 (F) FBPE Cert. of Auth. No. 25935

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www.windoorinc.com

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REVISED TABLE

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DATE

SERIES 4000 SINGLE HUNG IMPACT (LMI) WINDOW CENEDAL AND INICTALLATION NOTE

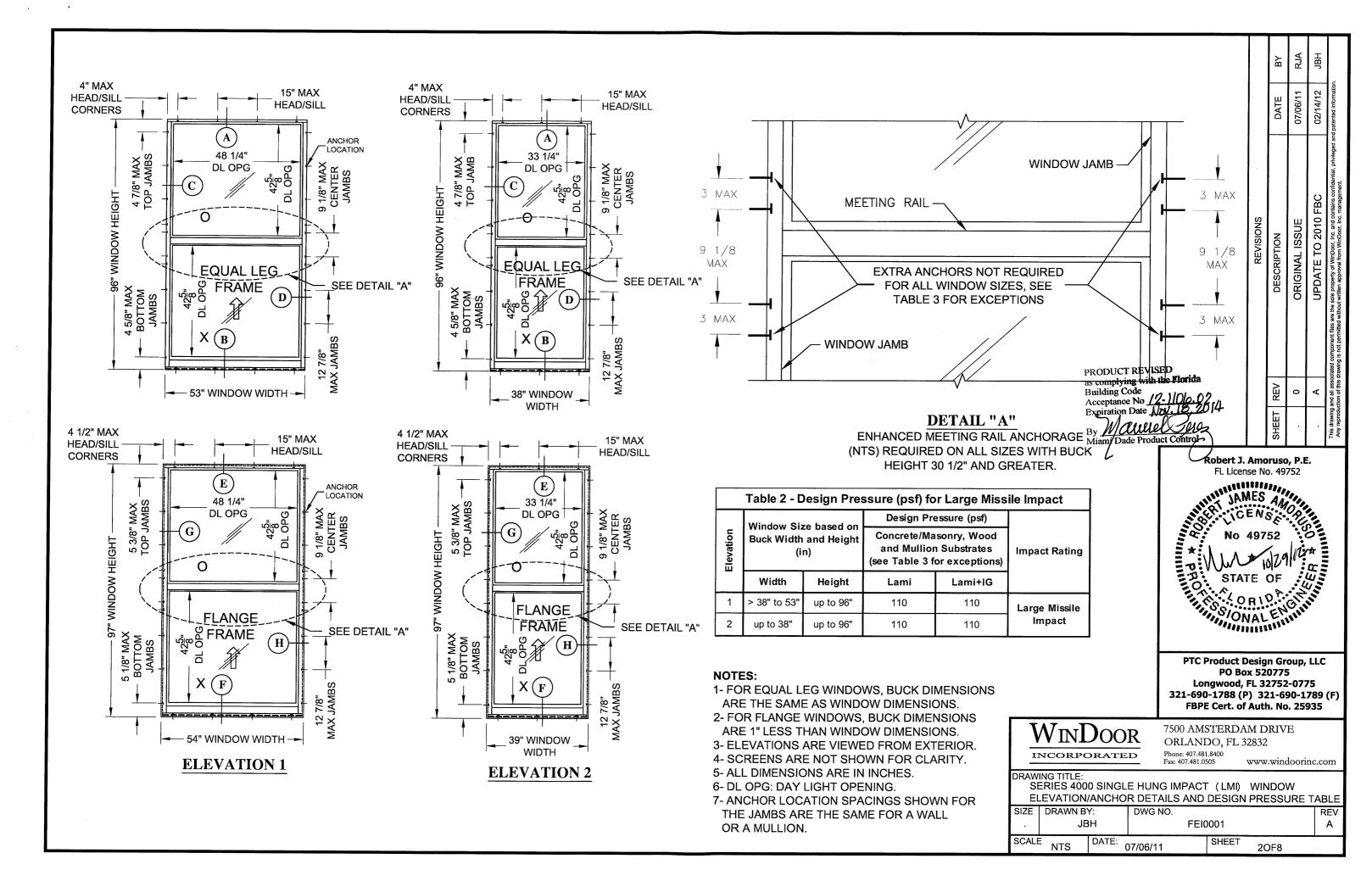
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Robert J. Amoruso, P.E.

FL License No. 49752

JAMES AN



### TABLES 3A TO 3E - WINDOW SIZES WITH LIMITATIONS IN DESIGN PRESSURE DUE TO ANCHORAGE.

	Table 3A - Co	mmodity Siz	ed Windows in Co	oncrete/Masonry			
	Design	Pressure (DP) (psf) limited by Anchorage					
Co	ncrete & Filled C	CMU	CMU				
Buck Sizes BW BH  No anchor limitations to DP.		DB (not)	Buck	Sizes	DD / 6		
		DP (psf)	BW	ВН	DP (psf)		
		110 psf (from Table 2)		> 95 to 96	95		
			> 52-1/8 to 53	> 83 to 95	96		
				> 71 to 83	104		
			> 47 to 52-1/8	> 95 to 96	97		
				> 83 to 95	98		
				> 71 to 83	106		
			No anchor limitation	ons to DP for sizes	110 psf (from		
			smaller then	those above.	Table 2)		

Table 3D - Commodity Sized Windows in Wood Substrates

Design Pressure (DP) (psf) limited by Anchorage

BW

47

47

47

47

47

47

DP (psf)

61

61

66

73

73

78

101

110

110

\* 87

**Buck Sizes** 

smaller then those above.

BH

96

95

83

72

71

62

DP (psf)

75

75

79

85

85

92

Table 2)

**Buck Sizes** 

BH

96

95

83

72

71

62

43 3/4

37 3/8

30 1/2

25

BW

53

53

53

53

53

53

52 1/8

52 1/8

52 1/8

52 1/8

	Table 3B - N	Modular Size	d Windows in Con	crete/Masonry	· · · · · · · · · · · · · · · · · · ·	
	Design	Pressure (DP)				
Cor	ncrete & Filled C	MU	CMU			
Buc	k Sizes	DP (psf)	Buck	Sizes	DD /==6	
BW BH		DF (psi)	BW	BH	DP (psf)	
No anchor limitations to DP.		110 psf (from Table 2)	> 52-1/8 to 53	> 95-1/2 to 96	95	
				> 83-1/2 to 95-1/2	96	
				> 71-1/2 to 83-1/2	103	
			> 47-1/2 to 52-1/8	> 95-1/2 to 96	97	
				> 83-1/2 to 95-1/2	98	
				> 71-1/2 to 83-1/2	106	
			No anchor limitatio smaller then	•	110 psf (from Table 2)	

	- Commodity & ndows Jamb to			
Design Pressure (DP) (psf) limited by Anchorage				
Buck	DP (psf)			
BW	ВН	DF (psi)		
No anchor lim	110 psf (from Table 2)			

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Table 3E - Modular Sized Windows in Wood Substrates						
	Design	Pressure (DP	) (psf) limited by A	Anchorage		
Bud	k Sizes	DP (psf)	·	Sizes	DB (nof)	
BW	ВН	DF (psi)	BW	BH	DP (psf)	
53	96	61	43 1/2	96	80	
53	95 1/2	61	43 1/2	95 1/2	81	
53	83 1/2	66	43 1/2	83 1/2	86	
53	71 1/2	73	43 1/2	71 1/2	94	
53	59 1/2	81	43 1/2	59 1/2	102	
53	51 1/2	91	43 1/2	30-1/2 to 51-1/2	110	
53	47 1/2	98	43 1/2	27 1/2	* 96	
53	43 1/2	100	39 1/2	96	92	
53	35 1/2	110	39 1/2	95 1/2	92	
53	30 1/2	110	39 1/2	83 1/2	98	
53	27 1/2	* 78	39 1/2	71 1/2	106	
47 1/2	96	71	39 1/2	30-1/2 to 59-1/2	110	
47 1/2	95 1/2	71	39 1/2	27 1/2	* 105	
47 1/2	83 1/2	76	35 1/2	> 83 1/2 to 96	107	
47 1/2	71 1/2	84	No anabar limitations to DD for sizes 440 r		110 pof /from	
47 1/2	59 1/2	92	No anchor limitations to DP for sizes 110 psf (fine smaller then those above.			
47 1/2	51 1/2	103	Sinaller trieff	uiose above.	Table 2)	
47 1/2	30-1/2 to 47-1/2	110				
47 1/2	27 1/2	* 87				

\* SIZES WITH BUCK HEIGHT (BH) LESS THAN 30 1/2" DO NOT HAVE SPACE FOR ENHANCED ANCHORAGE AT THE MEETING RAILS, THEREFORE THE DESIGN PRESSURE (DP) IS LOWER THAN THE NEXT LARGEST WINDOW. AT 30 1/2" BH OR LARGER, WINDOWS ARE FABRICATED AND INSTALLED WITH ENHANCED ANCHORAGE AT MEETING RAILS.

-					
53	55 1/4	86	47	55 1/4	99
53	49 5/8	94	47	49 5/8	107
53	43 3/4	100	47	43 3/4	110
53	37 3/8	110	47	37 3/8	110
53	30 1/2	110	47	30 1/2	110
53	25	* 85	47	25	* 96
52 1/8	96	62	38	96	97
52 1/8	95	63	38	95	103
52 1/8	83	68	38	> 71 to 83	106
52 1/8	72	75	38	25 to 71	110
52 1/8	71	75	36	> 95 to 96	105
52 1/8	62	80	36	25 to 95	110
52 1/8	55 1/4	88	Na anabar limitatia	DD for since	440 6/5
52 1/8	49 5/8	96	No anchor limitatio	ons to DP for sizes	110 psf (from

#### NOTES:

- 1- FOR EQUAL LEG WINDOWS, BUCK DIMENSIONS ARE THE SAME AS WINDOW DIMENSIONS.
- 2- FOR FLANGE WINDOWS, BUCK DIMENSIONS ARE 1" LESS THAN WINDOW DIMENSIONS.
- 3- BW: BUCK WIDTH, BH: BUCK HEIGHT
- 4- DP: DESIGN PRESSURE
- 5- CMU: CONCRETE MASONRY UNIT

•	WinDoor
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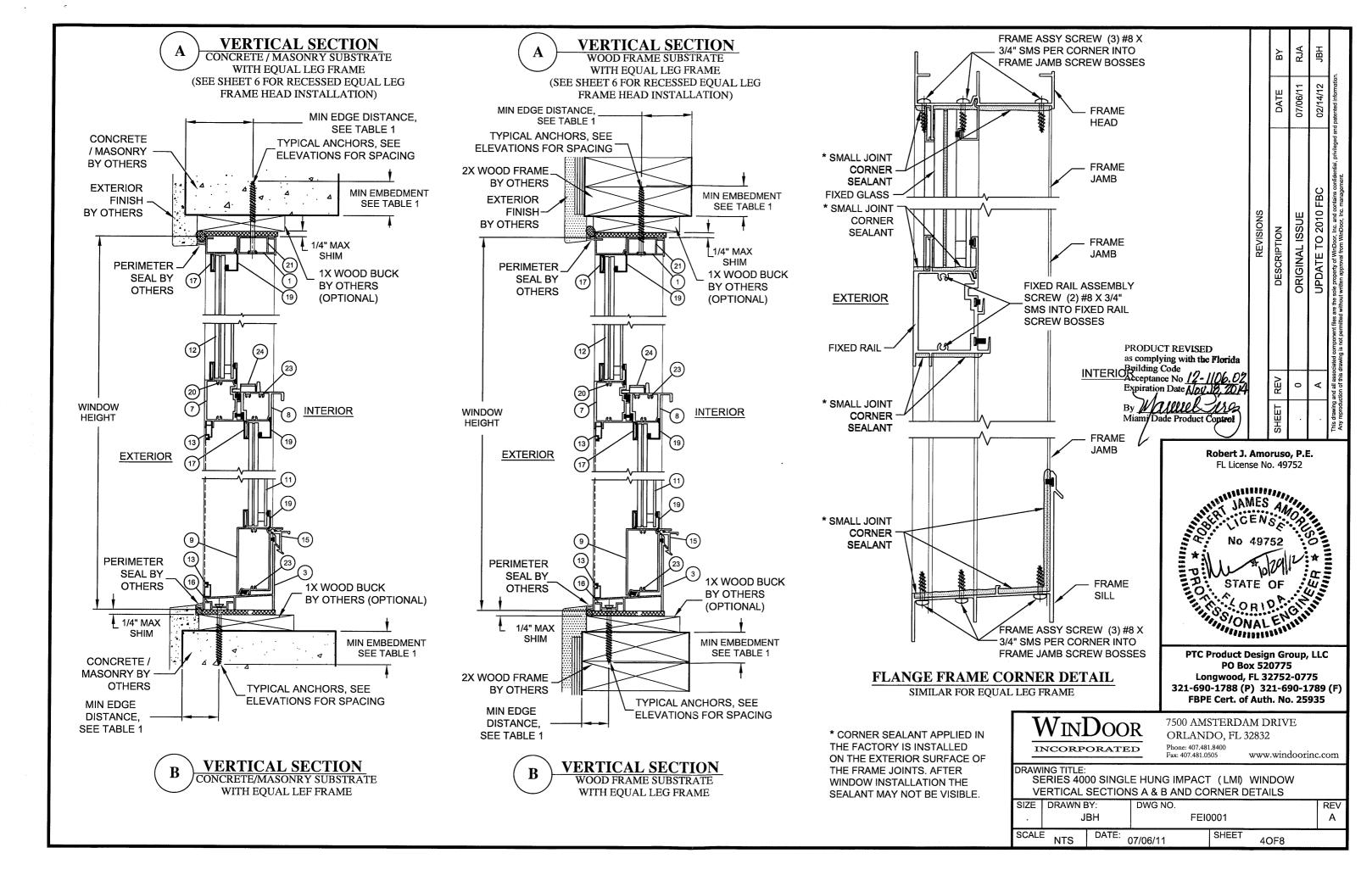
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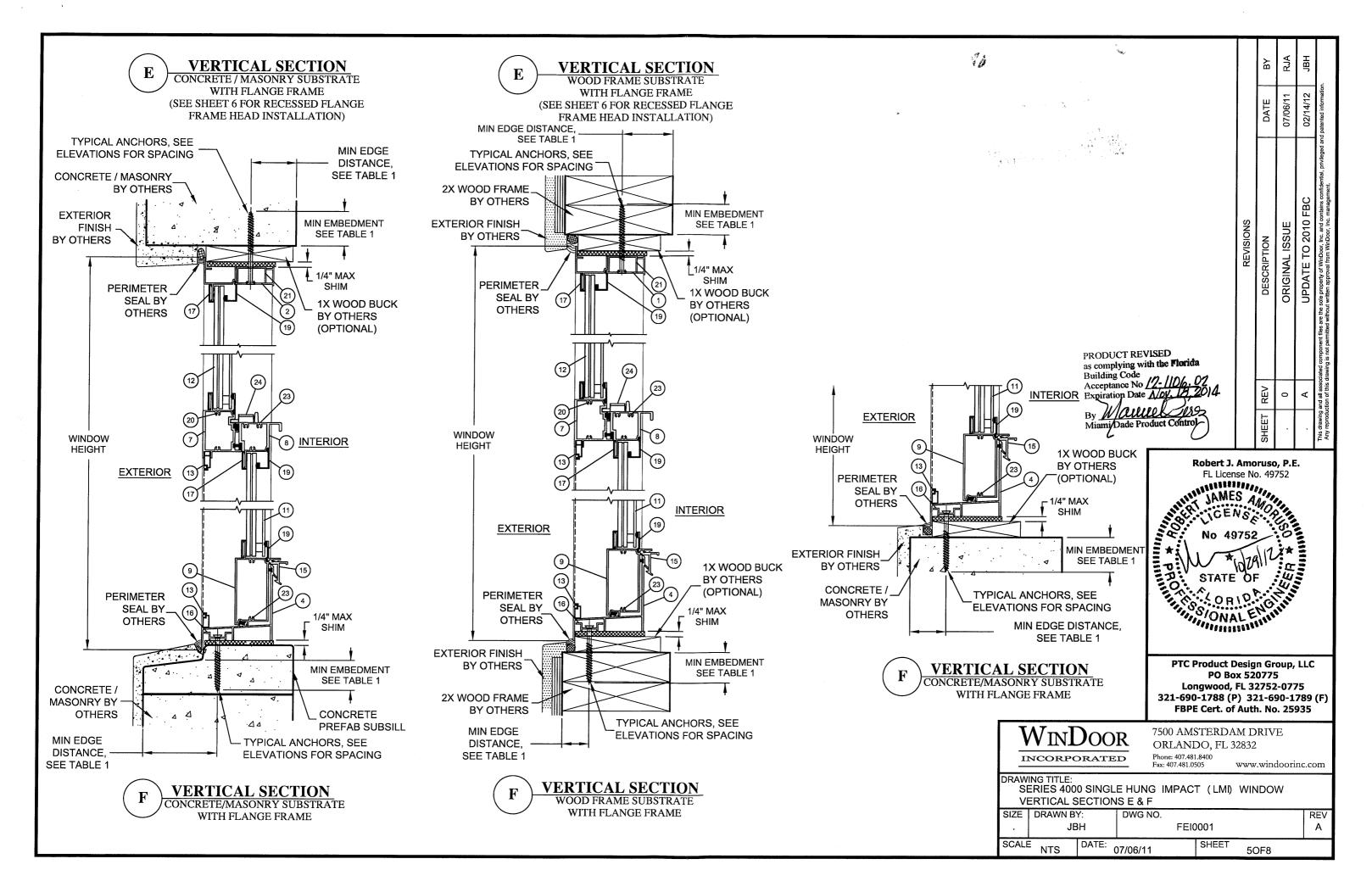
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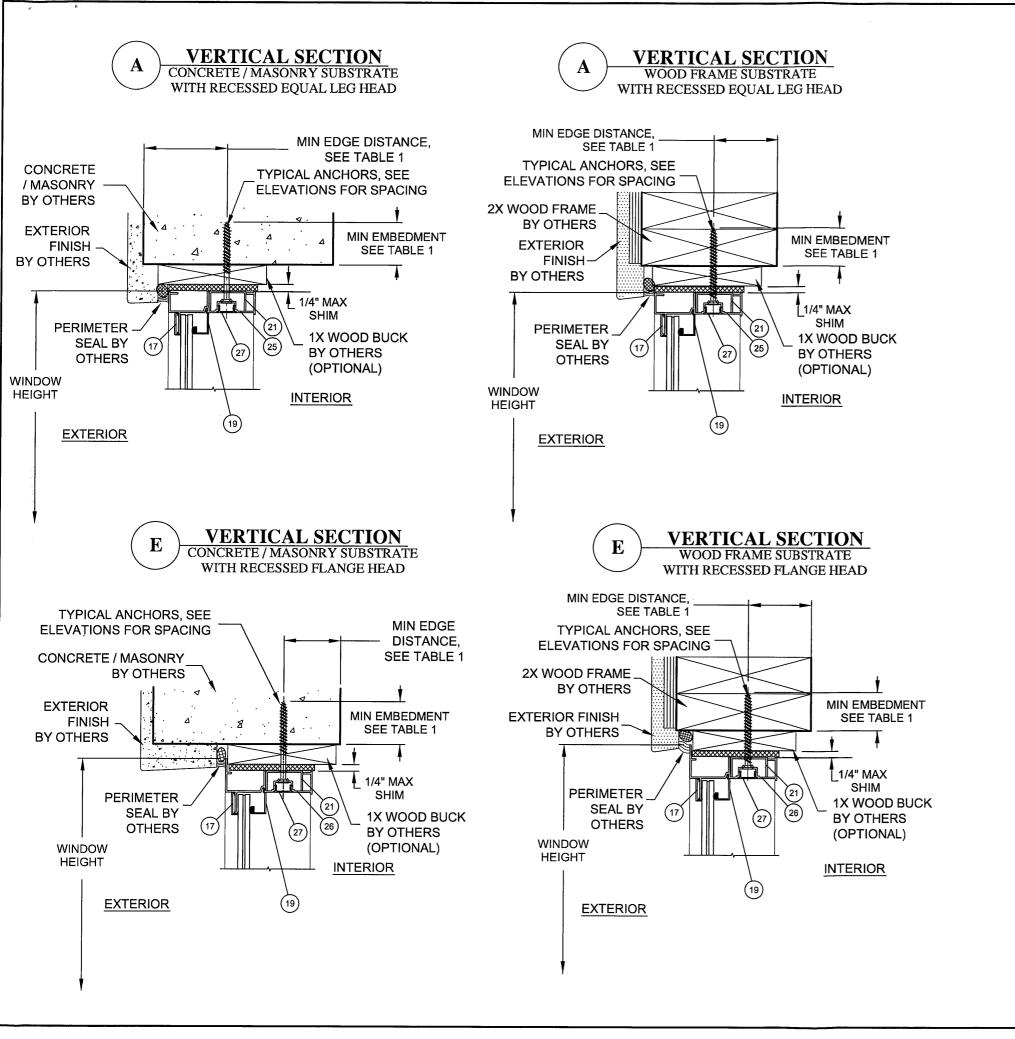
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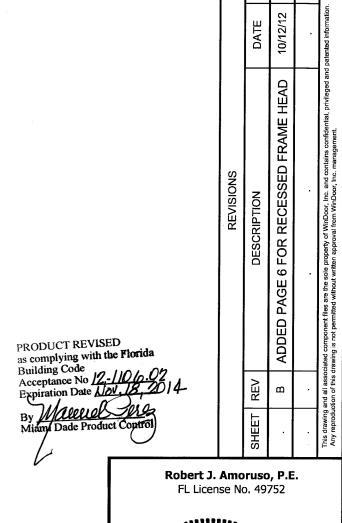
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DRAWING TITLE:

SERIES 4000 SINGLE HUNG IMPACT (LMI) WINDOW VERTICAL SECTIONS A & E (RECESSED FRAME HEAD)

VENTICAL SECTIONS A & L. (RECESSED FRAME HEAD)						
SIZE	DRAWN BY:		DWG NO.			RE'
	JBH		FEI0001		В	
SCALE	NTS	DATE:	07/06/11	SHEET	6OF8	

